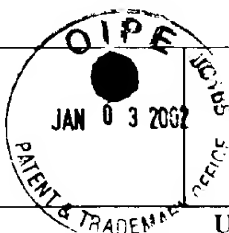


**Form PTO-1449 (modified)**  
List of Patents and Publications  
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ATTY. DKT. NO. 5659-03600/1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
W6	A1	760,304	05/1904	Butler			
	A2	1,342,741	06/1920	Day			
	A3	1,510,655	10/1924	Clark			
	A4	1,666,488	02/1927	Crawshaw			
	A5	1,913,395	11/1929	Karrick			
	A6	2,423,674	07/1947	Agren			
	A7	2,444,755	07/1948	Steffen			
	A8	2,466,945	02/1946	Greene			
	A9	2,472,445	06/1949	Sprong			
	A10	2,484,063	10/1949	Ackley			
	A11	2,497,868	02/1950	Dalin			
	A12	2,548,360	04/1951	Germain			
	A13	2,593,477	04/1952	Newman et al.			
	A14	2,595,979	05/1952	Pevere et al.			
	A15	2,630,306	01/1952	Evans			
	A16	2,634,961	04/1953	Ljungstrom			
	A17	2,642,943	06/1953	Smith et al.			
	A18	2,670,802	03/1954	Ackley			
	A19	2,695,163	11/1954	Pearce et al.			
	A20	2,732,195	01-24-56	Ljungstrom			
	A21	2,734,579	02-14-56	Elkins			
	A22	2,780,449	02-05-57	Fisher et al.			
	A23	2,777,679	01/1957	Ljungstrom			
	A24	2,780,450	02/1957	Ljungstrom			
	A25	2,786,660	03/1957	Alleman			
	A26	2,789,805	04/1957	Ljungstrom			
	A27	2,804,149	08/1957	Kile			
	A28	2,841,375	07/1958	Salomonsson			
	A29	2,902,270	09/1959	Salomonsson et al.			
W6	A30	2,906,337	09/1959	Henning			

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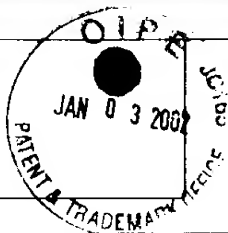
*Walter D. Driff*

DATE CONSIDERED:

5-28-2003

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ATTY. DKT. NO. 5659-03600/TH1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	A31	2,914,309	11/1959	Salomonsson			
	A32	2,923,535	02/1960	Ljungstrom			
	A33	2,939,689	06/1960	Ljungstrom			
	A34	2,954,826	10/1960	Sievers			
	A35	2,974,937	03/1961	Kiel			
	A36	2,994,376	08/1961	Crawford et al.			
	A37	2,998,457	08/1961	Paulsen			
	A38	3,004,603	10/1961	Rogers et al.			
	A39	3,007,521	11/1961	Trantham et al.			
	A40	3,095,031	06/1963	Eurenius et al.			
	A41	3,105,545	10/1963	Prats et al.			
	A42	3,106,244	10/1963	Parker			
	A43	3,110,345	11/1963	Reed et al.			
	A44	3,113,623	12/1963	Krueger			
	A45	3,114,417	12/1963	McCarthy			
	A46	3,131,763	05/1964	Kunetka et al.			
	A47	3,139,928	07/1964	Broussard			
	A48	3,142,336	07/1964	Doscher			
	A49	3,149,672	10/1964	Orkiszewski et al.			
	A50	3,163,745	12/1964	Boston			
	A51	3,164,207	01/1965	Thessen et al.			
	A52	3,182,721	05/1965	Hardy			
	A53	3,183,675	05/1965	Schroeder			
	A54	3,191,679	06/1965	Miller			
	A55	3,205,946	10/1965	Prats et al.			
	A56	3,207,220	10/1965	Williams			
	A57	3,208,531	10/1965	Tamplen			
WG	A58	3,209,825	10/1965	Alexander et al.			

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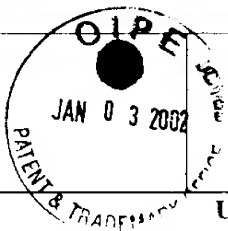
*Walt R. Dwyer*

DATE CONSIDERED:

*5-28-2001*

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ATTY. DKT. NO. 5659-03600/TU1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WE	A59	3,237,689	03/1966	Justheim			
	A60	3,241,611	03/1966	Dougan			
	A61	3,250,327	05/1966	Crider			
	A62	3,267,680	08/1966	Schlumberger			
	A63	3,284,281	11/1966	Thomas			
	A64	3,338,306	08/1967	Cook			
	A65	3,528,501	09/1970	Parker			
	A66	3,595,082	07/1971	Miller et al.			
	A67	3,973,628	08/1976	Colgate			
	A68	3,992,148	11/1975	Child			
	A69	3,993,132	11/1977	Garrett			
	A70	4,016,239	04/1977	Fenton			
	A71	4,076,761	02/1978	Chang et al.			
	A72	4,089,372	05/1978	Terry			
	A73	4,093,026	06/1978	Ridley			
	A74	4,096,163	06/1978	Chang, et al.			
	A75	4,130,575	12/1978	Jorn et al.			
	A76	4,133,825	01/1979	Stroud et al.			
	A77	4,138,442	02/1979	Chang et al.			
	A78	4,186,801	02/1980	Madgavkar et al.			
	A79	4,250,230	02/1981	Terry			
	A80	4,250,962	02/1981	Madgavkar et al.			
	A81	4,273,188	06/1981	Vogel et al.			
	A82	4,274,487	06/1981	Hollingsworth et al.			
	A83	4,299,086	11/1981	Madgavkar et al.			
	A84	4,299,285	11/1981	Tsai et al.			
	A85	4,359,687	11/1982	Vinegar et al.			
	A86	4,363,361	12/1982	Madgavkar et al.			
	A87	4,366,668	01/1983	Madgavkar et al.			
WG	A88	4,378,048	03/1983	Madgavkar et al.			

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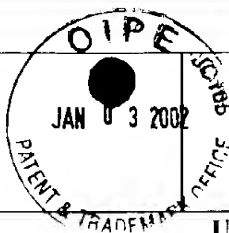
*Walt D. Duff*

DATE CONSIDERED:

5-28-2001

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ATTY. DKT. NO. 5659-03600/1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	A89	4,381,641	05/1983	Madgavkar et al.			
	A90	4,398,151	08/1983	Vinegar et al.			
	A91	4,407,973	10/1983	van Dijk et al.			
	A92	4,409,090	10/1983	Hanson et al.			
	A93	4,444,258	04/1984	Kalmar			
	A94	4,501,445	02/1985	Gregoli			
	A95	4,530,401	07/1985	Hartman et al.			
	A96	4,540,882	10/1985	Vinegar et al.			
	A97	4,542,648	10/1985	Vinegar et al.			
	A98	4,570,715	02/1986	Van Meurs et al.			
	A99	4,571,491	02/1986	Vinegar et al.			
	A100	4,572,299	02/1986	Vanegmond et al.			
	A101	4,583,046	04/1986	Vinegar et al.			
	A102	4,583,242	04/1986	Vinegar et al.			
	A103	4,594,468	06/1986	Minderhoud			
	A104	4,597,441	07/1986	Ware et al.			
	A105	4,605,680	08/1986	Beuther et al.			
	A106	4,613,754	09/1986	Vinegar et al.			
	A107	4,616,705	10/1986	Stegemeier et al.			
	A108	4,635,197	01/1987	Vinegar et al.			
	A109	4,640,352	02/1987	Vanmeurs et al.			
	A110	4,644,283	02/1987	Vinegar et al.			
	A111	4,658,215	04/1987	Vinegar et al.			
	A112	4,663,711	05/1987	Vinegar et al.			
	A113	4,671,102	06/1987	Vinegar et al.			
	A114	4,716,960	01/1988	Eastlund et al.			
	A115	4,719,423	01/1988	Vinegar et al.			
	A116	4,728,892	03/1988	Vinegar et al.			
	A117	4,730,162	03/1988	Vinegar et al.			
WG	A118	4,743,854	05/1988	Vinegar et al.			

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ATTY. DKT. NO. 5659-03600/TU1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	A119	4,762,425	08/1988	Shakkottai et al.			
	A120	4,769,602	09/1988	Vinegar et al.			
	A121	4,769,606	09/1988	Vinegar et al.			
	A122	4,793,656	12/1988	Siddoway et al.			
	A123	4,827,761	05/1989	Vinegar et al.			
	A124	4,848,924	07/1989	Nuspl et al.			
	A125	4,856,341	08/1989	Vinegar et al.			
	A126	4,860,544	08/1989	Krieg et al.			
	A127	4,866,983	09/1989	Vinegar et al.			
	A128	4,884,455	12/1989	Vinegar et al.			
	A129	4,886,118	12/1989	Van Meurs et al.			
	A130	4,927,857	05/1990	McShea III et al.			
	A131	4,974,425	12/1990	Krieg et al.			
	A132	4,983,319	01/1991	Gregoli et al.			
	A133	4,984,594	01/1991	Vinegar et al.			
	A134	4,987,368	01/1991	Vinegar			
	A135	4,994,093	02/1991	Wetzel et al.			
	A136	5,014,788	05/1991	Puri et al.			
	A137	5,046,559	10/1991	Glandt			
	A138	5,050,386	09/1991	Krieg et al.			
	A139	5,060,287	10/1991	Van Egmond			
	A140	5,060,726	10/1991	Glandt et al.			
	A141	5,065,818	11/1991	Van Egmond			
	A142	5,168,927	12/1992	Stegemeier et al.			
	A143	5,189,283	02/1993	Carl, Jr. et al.			
	A144	5,190,405	03/1993	Vinegar et al.			
	A145	5,207,273	05/1993	Cates et al.			
	A146	5,211,230	05/1993	Ostapovich et al.			
	A147	5,226,961	07/1993	Nahm et al.			
WG	A148	5,229,583	07/1993	van Egmond et al.			

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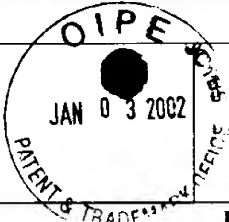
*Mark D. Duff*

DATE CONSIDERED:

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ATTY. DKT. NO. 5659-03600/1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	A149	5,236,039	10/1993	Edelstein et al.			
	A150	5,255,742	10/1993	Mikus			
	A151	5,297,626	03/1994	Vinegar et al.			
	A152	5,306,640	04/1994	Vinegar et al.			
	A153	5,318,116	06/1994	Vinegar et al.			
	A154	5,339,897	08/1994	Leaute			
	A155	5,340,467	08/1994	Gregoli et al.			
	A156	5,349,859	09/1994	Kleppe			
	A157	5,388,640	02/1995	Puri et al.			
	A158	5,388,641	02/1995	Yee et al.			
	A159	5,388,642	02/1995	Puri et al.			
	A160	5,388,643	02/1995	Yee et al.			
	A161	5,388,645	02/1995	Puri et al.			
	A162	5,391,291	02/1995	Winqvist et al.			
	A163	5,392,854	02/1995	Vinegar et al.			
	A164	5,404,952	04/1995	Vinegar et al.			
	A165	5,409,071	04/1995	Wellington et al.			
	A166	5,411,089	05/1995	Vinegar et al.			
	A167	5,415,231	05/1995	Northrop et al.			
	A168	5,431,224	07/1995	Laali			
	A169	5,433,271	07/1995	Vinegar et al.			
	A170	5,437,506	08/1995	Gray			
	A171	5,439,054	08/1995	Chaback et al.			
	A172	5,454,666	10/1995	Chaback et al.			
	A173	5,497,087	03/1996	Vinegar et al.			
	A174	5,498,960	03/1996	Vinegar et al.			
	A175	5,525,322	06/1996	Willms			
	A176	5,553,189	09/1996	Stegemeier et al.			
	A177	5,554,453	09/1996	Steinfeld et al.			
WG	A178	5,566,756	10/1996	Chaback et al.			

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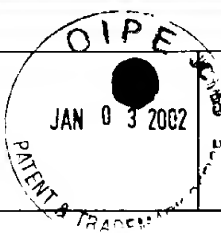
*Walt D. Duff*

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ATTY. DKT. NO. 5659-03600/TU1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	A179	5,624,188	04/1997	West			
	A180	5,656,239	08/1997	Stegemeier et al.			
	A181	5,676,212	10/1997	Kuckes			
	A182	5,862,858	01/1999	Wellington et al.			
	A183	5,899,269	05/1999	Wellington et al.			
	A184	5,968,349	10/1999	Duyvesteyn et al.			
	A185	5,984,010	11/1999	Elias et al.			
	A186	5,985,138	11/1999	Humphreys			
	A187	5,997,214	12/1999	de Rouffignac et al.			
	A188	6,016,867	01/2000	Gregoli et al.			
	A189	6,016,868	01/2000	Gregoli et al.			
	A190	6,019,172	02/2000	Wellington et al.			
	A191	6,023,554	02/2000	Vinegar et al.			
	A192	6,056,057	05/2000	Vinegar et al.			
	A193	6,079,499	06/2000	Mikus et al.			
	A194	6,085,512	07/2000	Agee et al.			
	A195	6,094,048	07/2000	Vinegar et al.			
	A196	6,102,122	08/2000	de Rouffignac			
	A197	6,102,622	08/2000	Vinegar et al.			
	A198	6,152,987	11/2000	Ma et al.			
	A199	6,172,124	01/2001	Wolflick et al.			
	A200	6,173,775 B1	01/2001	Elias et al.			
	A201	6,187,465	02/2001	Galloway			
	A202	Re. 30,738	09/1981	Bridges et al.			
WG	A203	Re. 35,696	12/1997	Mikus			

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLAT ON/YES/NO
WG	A204	121,737	03/1948	Sweden			
WG	A205	123,136	11/1948	Sweden			

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ATTY. DKT. NO. 5659-03600/TU1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLAT ON YES/NO
WC	A206	123,137	11/1948	Sweden			
	A207	123,138	11/1948	Sweden			
	A208	126,674	11/1949	Sweden			
	A209	1,196,594	11/1985	CA			
	A210	1,253,555	05/1989	CA			
	A211	1,288,043	08/1991	CA			
	A212	156,396	01/1921	GB			
	A213	674,082	06/1952	GB			
	A214	697,189	09/1953	GB			
	A215	1,454,324	11/1976	GB			
	A216	1,501,310	02/1978	GB			
	A217	2,086,416	05/1982	GB			
	A218	1836876	12/1994	SU			
	A219	0570228 B1	09/1996	EP			
	A220	99/01640	01/1999	WO			
	A221	95/06093	03/1995	WO			
	A222	95/12746	05/1995	WO			
	A223	95/33122	12/1995	WO			
	A224	95/12742	05/1995	WO			
	A225	95/12743	05/1995	WO			
V	A226	95/12744	05/1995	WO			
WC	A227	95/12745	05/1995	WO			

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

WC	A228	Some Effects of Pressure on Oil-Shale Retorting," Society of Petroleum Engineers Journal. J.H. Bae, September, 196 pp. 287-292.
WC	A229	New in situ shale-oil recovery process uses hot natural gas; The Oil & Gas Journal; May 16, 1966, p. 151.
WC	A230	Evaluation of Downhole Electric Impedance Heating Systems for Paraffin Control in Oil Wells; Industry Applications Society 37 <sup>th</sup> Annual Petroleum and Chemical Industry Conference; The Institute of Electrical and Electronics Engineer Inc., Bosch et al., September 1990, pp. 223-227.
WC	A231	New System Stops Paraffin Build-up; Petroleum Engineer, Eastlund et al., January 1989, (3 pages).
WC	A232	Oil Shale Retorting: Effects of Particle Size and Heating Rate on Oil Evolution and Intraparticle Oil Degradation; Campbell et al. In Situ 2(1), 1978, pp. 1-47.

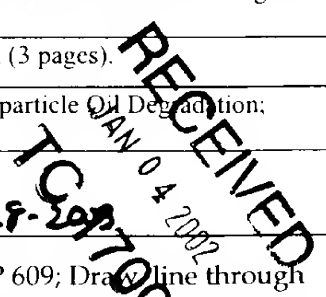
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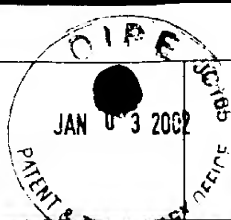
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ATTY. DKT. NO. 5659-03600/11961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

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FILING DATE: April 24, 2001

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

WG	A233	The Potential For In Situ Retorting of Oil Shale In the Piceance Creek Basin of Northwestern Colorado; Dougan et al Quarterly of the Colorado School of Mines, pp. 57-72.
	A234	Retoring Oil Shale Underground-Problems & Possibilities; B.F. Grant, Qtly of Colorado School of Mines, pp 39-46.
	A235	Molecular Mechanism of Oil Shale Pyrolysis in Nitrogen and Hydrogen Atmospheres, Hershkovitz et al.; Geochemistry and Chemistry of Oil Shales, American Chemical Society, 5/1983 pp. 301-316.
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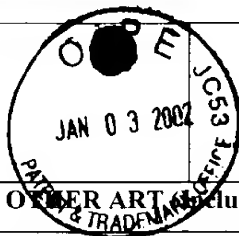
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ATTY. DKT. NO. 5659-03600/TU1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

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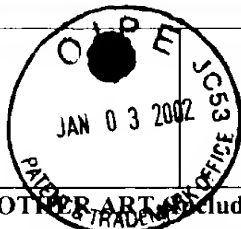
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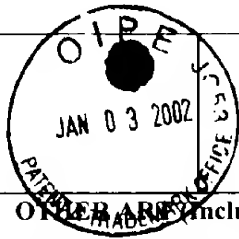
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ATTY. DKT. NO. 5659-03600/TU1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

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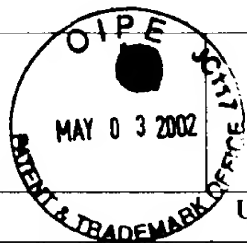
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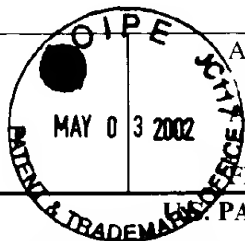
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	C75	4,608,818	9/1986	Goebel et al.			
	C76	4,637,464	1/1987	Forgac et al.			
	C77	4,651,825	3/1987	Wilson			
	C78	4,662,438	5/1987	Taflove et al.			
	C79	4,662,439	5/1987	Puri			
	C80	4,662,443	5/1987	Puri et al.			
	C81	4,691,771	9/1987	Ware et al.			
	C82	4,704,514	11/1987	Van Edmond et al.			
	C83	4,772,634	9/1988	Farooque			
	C84	4,787,452	11/1988	Jennings, Jr.			
	C85	4,817,711	4/1989	Jeambey			
	C86	4,818,370	4/1989	Gregoli et al.			
	C87	4,928,765	5/1990	Nielson			
V	C88	5,064,006	11/1991	Waters et al.			
WG	C89	5,082,054	1/1992	Kiamanesh			

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EXAMINER:

*Walter D. Duff*

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Form PTO-1449 (modified)  
List of Patents and Publications  
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ATTY. DKT. NO. 5659-03600/TH1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	C90	5,082,055	1/1992	Hemsath			
	C91	5,217,076	6/1993	Masek			
	C92	5,261,490	11/1993	Ebinuma			
	C93	5,285,846	2/1994	Mohn			
	C94	5,289,882	3/1994	Moore			
	C95	5,411,104	5/1995	Stanley			
	C96	5,632,336	5/1997	Notz et al.			
	C97	5,713,415	2/1998	Bridges			
	C98	6,328,104	12/2001	Graue			
	D1	3,149,670	9/1964	Grant			
	D2	3,380,913	4/1968	Henderson			
	D3	3,794,116	2/1974	Higgins			
	D4	4,197,911	4/1980	Anada			
WG	D5	4,412,124	10/1983	Kobayashi			
WG	D8	3,316,962	5/1967	Lange			

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FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI ON YES/NO
WG	C99	2,015,460	10/1991	CA			
WG	C100	940558 A1	9/1999	EP			
WG	C101	01/81723 A1	11/2001	WO			
WG	C102	01/81505 A1	11/2001	WO			
WG	D6	1,165,361	4/1984	CA			
WG	D7	1,168,283	5/1994	CA			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WG	C103	Appalachian Coals: Potential Reservoirs for Sequestering Carbon Dioxide Emissions from Power Plants While Enhancing CBM Production; C.W. Byer, et al., Proceedings of the International Coalbed Methane Symposium.
WG	C104	The Pros and Cons of Carbon Dioxide Dumping Global Warming Concerns Have Stimulated a Search for Carbon Sequestration Technologies; C. Hanisch, Environmental Science and Technology, American Chemical Society, Easton, PA.
WG	C105	Pilot Test Demonstrates How Carbon Dioxide Enhances Coal Bed Methane Recovery, Lanny Schoeling and Michael McGovern, Petroleum Technology Digest, September 2000, p. 14-15.

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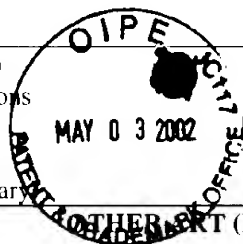
*Walter D. Duff*

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5-28-2003

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Form PTO-1449 (modified)  
List of Patents and Publications  
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ATTY. DKT. NO. 5659-03600 TH1961

SERIAL NO. 09/841,296

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

OTHER REFERENCE (Including Author, Title, Date, Pertinent Pages, Etc.)

WG	C106	In Situ Measurement of Some Thermoporoelastic Parameters of a Granite, Berchenko et al., Poromechanics, A Tribute to Maurice Biot, 1998, p. 545-550.
WG	C107	Conversion characteristics of selected Canadian coals based on hydrogenation and pyrolysis experiments, W. Kalkreuth, C. Roy, and M. Steller. Geological Survey of Canada, Paper 89-8, 1989, pages 108-114. XP001014535
WG	D9	Passey et al., US Patent Application Publication 2001/0049342 A1, December 6, 2001.
WG	D10	Tar and Pitch, G. Collin and H. Hoeke. Ullmann's Encyclopedia of Industrial Chemistry, Vol. A 26, 1995, p. 91-127.

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ATTY. DKT. NO. 5659-03600/TH 1961

SERIAL NO. 09/841,296 #10

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	E1	3,181,613	May-1965	Krueger			
	E2	3,922,148	Nov-1975	Child			RECEIVED
	E3	3,924,680	Dec-1975	Terry			JUN 06 2002
	E4	5,020,596	Jun-1991	Hemsath			TC 1700
	E5	5,229,102	Jul-1993	Minet et al.			
	E6	5,316,664	May-1994	Gregoli et al.			
	E7	5,366,012	Nov-1994	Lohbeck			RECEIVED
	E8	5,541,517	Jul-1996	Hartmann et al.			JUN 11 2002
	E9	5,861,137	Jan-1999	Edlund			GROUP 3600
WG	E10	6,354,373	Mar-2001	Vercaemer et al.			
WG	E15	4,463,807	Aug-1984	Stoddard et al.			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WG	E11	Coal. Encyclopedia of Chemical Technology, Kirk, R.E., Kroschwitz, J.I., Othmer, D.F., Wiley, New York, 4th edition, 1991, Vol. 6, pp. 423-488.
WG	E12	Cortez et al., UK Patent Application GB 2,068,014 A, Date of Publication: August 5, 1981.
WG	E13	Wellington et al., US Patent Application 60/273,354, Filed March 5, 2001.
WG	E14	The VertiTrak System Brochure, Baker Hughes, INT-01-1307A4, 2001 8 pages.

EXAMINER:

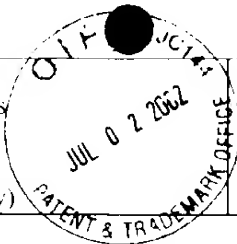
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ATTY. DKT. NO. 5659-03600/T111961  
APPLICANT: Wellington et al.  
FILING DATE: April 24, 2001

SERIAL NO. 09/841,296  
GROUP: 1764

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	F1	4,252,191	Feb-1981	Pusch et al.			
WG	F2	3,310,109	Mar-1967	J. W. Marx et al.			

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

WG	F3	Thermal, Mechanical, and Physical Properties of Selected Bituminous Coals and Cokes, J. M. Singer and R. P. Tye, US Department of Interior, Bureau of Mines (1979) Government Report No. 8364.					
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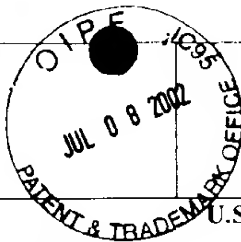
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ATTY. DKT. NO. 5659-03600-1961

SERIAL NO. 09-841,296

APPLICANT: Wellington et al.

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FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	G1	3,675,715	Jul-1972	Speller, Jr.			
WG	G2	3,809,159	May-1974	Young et al.			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WG	G3	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 68-97.					
WG	G4	Department of Energy Coal Sample Bank and Database <a href="http://www.energy.psu.edu/arg/doesb.htm">http://www.energy.psu.edu/arg/doesb.htm</a> , June 4, 2002.					

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ATTY. DKT. NO. 5659-03600 TH1961

SERIAL NO. 09 841.296

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
W6	G5	3,766,982	Oct-1973	Justheim			

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ATTY. DKT. NO. 5659-03600/TH1961

SERIAL NO. 09 841,296

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	G5	3,766,982	Oct-73	Justheim			
WG	G7	3,599,714	Aug-71	Messman et al.			
WG	G8	4,043,393	Aug-77	Fisher et al.			

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

WG	G6	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 164-165.					
WG	G9	Hyne, Norman J. Geology for Petroleum Exploration, Drilling, and Production. McGraw-Hill Book Company, 1984, p. 264.					

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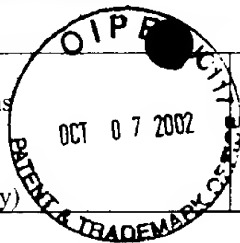
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ATTY. DKT. NO. 5659-03600/111961

SERIAL NO. 09/841,296

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
WG	H1	4,093,025	June 78	Terry			
	H3	4,895,206	Jan-90	Price			
	J1	326,439	Sep-1885	McEachen			
	J2	1,681,523	Feb-1928	Downey et. al.			
	J3	2,244,256	Jun-1941	Looman			
	J4	2,714,930	Aug-1955	Carpenter			
	J5	3,547,193	Dec-1970	Gill			
	J6	3,562,401	Feb-1971	Long			
	J7	4,089,374	May-1978	Terry			
	J8	4,423,311	Dec-1983	Varney, Sr.			
	J9	4,489,782	Dec-1984	Perkins			
	J10	4,626,665	Dec-1986	Fort, III			
	J11	4,694,907	Sep-1987	Stahl et. al.			
	J12	5,182,792	Jan-1993	Goncalves			
	J13	5,402,847	Apr-1995	Wilson et. al.			
	J14	5,491,969	Feb-1996	Cohn et. al.			
	J15	5,621,844	Apr-1997	Bridges			
	J16	6,244,338	Jun-2001	Mones			
	J17	6,389,814	May-2002	Viteri et al.			
	J18	6,412,559	Jul-2002	Gunter et al.			
	J20	3,680,633	Aug-1972	Bennett			
WG	J21	4,508,170	Apr-1985	Littman			

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EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
WG	J19	97/01017	Jan-1997	WO			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WG	H2	Hobson, G.D., Modern Petroleum Technology, Halsted Press, Applied Science Publishers LTD. 1973, pp. 786, 787					
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# Electronic Information Disclosure Statement



## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE CONTAINING OLEFINS, OXYGENATED HYDROCARBONS, AND/OR AROMATIC HYDROCARBONS

Application:



09/841296

Confirmation: 3881

Applicant(s): Scott Wellington

Docket  
Number: 5659-03600

Group Art

Unit:

Examiner: Unknown

( 4087130 or 4537252 or re30019 or 2623596 or 3775185 or 4524113 or 5284878 or 5767584 or

search string: 5955039 or 4091869 or 4513816 or 0094813 or 5008085 or 4099567 or 0048994 or 6485232 or  
20020018697 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
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WG	P23	4087130	1978-05-02		Garrett
WG	P24	4537252	1985-08-27		Puri
WG	P25	re30019	1979-06-05		Lindquist
WG	P26	2623596	1952-12-30		Whorton et al.
WG	P27	3775185	1973-11-27		Kunz et al.
WG	P28	4524113	1985-06-18		Lesieur
WG	P29	5284878	1994-02-05		Studer et al.
WG	P30	5767584	1998-06-16		Gore et. al
WG	P31	5955039	1999-09-21		Dowdy
WG	P32	4091869	1978-05-30		Hoyer
WG	P33	4513816	1985-04-30		Hubert
WG	P34	0094813	1869-09-14		Dickey
WG	P35	5008085	1991-04-16		Bain et al.
WG	P36	4099567	1978-07-11		Terry
WG	P37	0048994	1865-07-25		Parry
WG	P38	6485232	2002-11-26		Vinegar et al.

## Published Applications

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
WG	U01	20020018697	2002-02-14		Vinegar et al.		

## Remarks

(Remarks are not for responding to an office action.)

Please note: Foreign patent documents and non-patent references will be sent using a standard US PTO 1449 Form.

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Examiner Name	Date
Walter A. Duff	5-28-2003

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ATTY. DKT. NO. 5659-03600/TH 1

SERIAL NO. 09/841,296

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WG

L12

Van Krevelen, COAL: Typology-Physics-Chemistry-Constitution, 1993, pp. 27, 42, 52, 322, 323, 324, 325, 326, 526, 527, 726.

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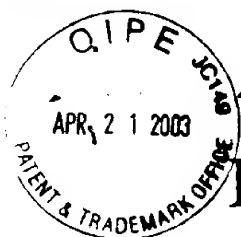
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DATE CONSIDERED:


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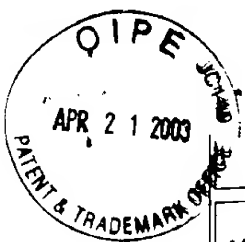
## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE CONTAINING OLEFINS, OXYGENATED HYDROCARBONS, AND/OR AROMATIC HYDROCARBONS

Application:   
09/841296  
Confirmation: 3881  
Applicant(s): Scott Wellington  
Docket  
Number: 5659-03600  
Group Art Unit:  
Examiner: Unknown  
search string: ( 3221811 or 3987851 or 4042026 or 4005752 or 5868202 or 5126037 or 3477058 or  
3580987 ).pn.

### US Patent Documents

**Note: Applicant is not required to submit a paper copy of cited US Patent Documents**

init	Citation	Patent Number	Date	Bar Code	Patentee	Class	Subclass
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	No.				
WG	P01	3221811	1965-12-07		Prats
WG	P02	3987851	1976-10-26		Tham
WG	P03	4042026	1977-08-16		Pusch et al.
WG	P04	4005752	1977-02-01		Cha
WG	P05	5868202	1999-02-09		Hsu
WG	P06	5126037	1992-06-30		Showalter
WG	P07	3477058	1968-11-04		Vedder et al.
WG	P08	3580987	1971-05-25		Priaroggia

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Signature

Examiner Name	Date
Walter D. Duff	5-28-2007



#19

# Electronic Information Disclosure Statement

## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE CONTAINING OLEFINS, OXYGENATED HYDROCARBONS, AND/OR AROMATIC HYDROCARBONS

Application:



09/841296

Confirmation: 3881

Applicant(s): Scott Wellington

Docket  
Number: 5659-03600

Group Art  
Unit:

Examiner: Unknown

search string: ( 4193451 or 4265307 or 4390067 or 4456065 or 4457374 or 4479541 or 4498535 or 4598770  
or 4669542 or 4682652 or 4982786 or 5201219 or 5339904 or 3349845 ).pn.

### US Patent Documents

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
WG	P08	4193451	1980-03-18		Dauphine		
WG	P09	4265307	1981-05-05		Elkins		
WG	P10	4390067	1983-06-28		Wilman		
WG	P11	4456065	1984-06-26		Heim et al.		
WG	P12	4457374	1984-07-03		Hoekstra et al.		
WG	P13	4479541	1984-10-30		Wang		
WG	P14	4498535	1985-02-12		Bridges		
WG	P15	4598770	1986-07-08		Shu et al.		
WG	P16	4669542	1987-06-02		Venkatesan		
WG	P17	4682652	1987-07-28		Huang et al.		
WG	P18	4982786	1991-01-08		Jennings, Jr.		
WG	P19	5201219	1993-04-13		Bandurski et al.		
WG	P20	5339904	1994-08-23		Jennings, Jr.		
WG	P25	3349845	1967-10-31		Holbert et al.		

## Signature

Examiner Name	Date
<i>Walter D. Duff</i>	5-28-2003





## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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### Title of Invention

Title IN SITU THERMAL PROCESSING OF A  
HYDROCARBON CONTAINING FORMATION TO  
PRODUCE A MIXTURE CONTAINING OLEFINS,  
OXYGENATED HYDROCARBONS, AND/OR AROMATIC  
HYDROCARBONS

Application Number: 09/841296  
Confirmation Number: 3881  
First Named Applicant: Scott Wellington  
Attorney Docket Number: 5659-03600  
Examiner: Unknown Unknown  
Search string: ( 1646599 or 3952802 or 4010800 or  
3892270 ).pn.

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### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
WG	1	1646599	1927-10-25	Schaefer			
WG	2	3952802	1976-04-27	Terry			
WG	3	4010800	1977-03-08	Terry			
WG	4	3892270	1975-07-01	Lindquist			

### Remarks

Note: Remarks are not for responding to an office action.

Foreign applications and other art will be submitted on a PTO-1449 form

### Signature

Examiner Name	Date
Walt R. Duff	6-12-2003

<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-03600/TE 51		SERIAL NO. 09/841,296	
		APPLICANT: Wellington et al.		GROUP: 1764	
		FILING DATE: April 24, 2001			
<b>FOREIGN PATENT DOCUMENTS</b>					
EXAM. INITIALS WG	REF. DES. AA2	DOCUMENT NUMBER 294 809	DATE 1988-12-14	COUNTRY EP	CLASS
					SUB CLASS
					TRANSLATION YES/NO



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EXAMINER: *Walt D. Duff*

DATE CONSIDERED: 6-12-2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.